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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/722,158 Confirmation No. 6770
Applicant : James W. Norris et al.
Filed : November 24, 2003
TC/A.U. : 3746
Examiner :

Docket No. : EH-10676 (02-647)
Customer No. : 34704

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance Applicants' continued duty of disclosure, the documents on the attached Form PTO-1449 are brought to the Examiner's attention. Copies of the non-US patent documents are enclosed.

German Patent No. 690 569 describes a tangential fuel/air injection method intended to create vortices to enhance mixing in a combustion chamber. This is accomplished with mechanical poppet valves opening and closing to support a design frequency.

German Patent DE 198 50 812 A1 describes a method for isolating and confining fueled air from unfueled air through the use of a cross flow air curtain in a combustor tube. The cross flow is accomplished by a narrow circumferential slit in the combustor tube downstream of both the inlet valve and the spark plug. The intent is to localize the combustible mixture in the front end of the combustor tube with a non-mechanical constriction that will effectively disappear and allow high pressure post heated gases to flow freely after the combustion event.

The undersigned hereby certifies that each item of information contained in the information disclosure statement was


first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement.

The undersigned submits the above-identified references for independent consideration by the Examiner and does not make any admission that these references are or are not material to the present invention or that these references are or are not prior art with respect to the present invention.

No fee is believed to be due as a result of this response. Should the Commissioner determine that a fee is due, he is hereby authorized to charge said fee to Deposit Account No. 02-0184.

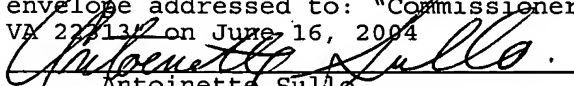
Respectfully submitted,


James W. Norris et al.

By 
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Date: June 16, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313" on June 16, 2004


Antoinette Sullio



Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

Complete if Known

(use as many sheets as necessary)

Sheet	1	of	1
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Application Number	10/722,158
Filing Date	November 24, 2003
First Named Inventor	James W. Norris
Group Art Unit	3746
Examiner Name	
Attorney Docket Number	EH-10676 (02-647)

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		2,557,198		NICHOLS	06-19-1951	
		2,748,564		MARCHAL ET AL.	06-05-1956	
		2,888,803		PON	06-02-1959	
		2,930,196		HERTZBERG ET AL.	03-29-1960	
		3,417,564		CALL	12-24-1968	
		3,792,584		KLEES	02-19-1974	
		4,314,444		PUTNAM ET AL.	02-09-1982	
		4,570,438		LORENZ	02-18-1986	
		5,218,816		PLEMMONS ET AL.	06-15-1993	
		5,473,885		HUNTER, JR. ET AL.	12-12-1995	
		5,579,633		HUNTER, JR. ET AL.	12-03-1996	
		5,899,660		DODD	05-04-1999	
		5,937,635		WINFREE ET AL.	08-17-1999	
		2002/139106		MEHOLIC	10-03-2002	

[illegible]Date
Considered

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**